

Teaching Student-Centered Mathematics: A hands-on workshop developing whole number operations and fraction concepts in grades 1-3

Presented by Karen Karp & Jennifer Bay-Williams, co-authors with John Van de Walle
Thursday, November 21, 2013

Domain 1: Planning & Preparation - Component 1a: Knowledge of Content and Pedagogy Elements:

- Knowledge of Content and the Structure of the Discipline
- Knowledge of Prerequisite Relationships
- Knowledge of Content-Related Pedagogy

Exploring whole number operations and fractions using visuals and various problem-solving situations can help students develop a deeper understanding and become mathematically proficient. Join Karen Karp and Jennifer Bay-Williams for a day filled with content-rich mathematical tasks. Participants will work through student-centered whole number and fraction tasks designed to:

- Develop conceptual understanding of whole number operations
- Develop conceptual understanding of fractions
- Teach whole number and fraction concepts developmentally
- Challenge and engage students in problem-solving



Dr. Karen Karp is a professor of mathematics education at the University of Louisville. Karen is co-author of fourteen books including *Elementary and Middle School Mathematics: Teaching Developmentally*, *Student Centered Mathematics*, *Developing Essential Understanding of Addition and Subtraction for Teaching Mathematics*, *Inspiring Girls to Think Mathematically* plus numerous book chapters and articles. She is a former member of the Board of Directors of NCTM and former president of the Association of Mathematics Teacher Educators (AMTE). She continues to work in classrooms across the state of Kentucky to support teachers of students with disabilities in their mathematics instruction. Karen is a recipient of the U of L President's Distinguished Teaching Award.



Dr. Jennifer Bay-Williams is a professor of mathematics education at the University of Louisville. She taught elementary, middle and high school in Missouri and in Peru. She continues to work in classrooms at all levels with both students and teachers, regularly providing professional development on effective teaching practices. She has been a regular contributor to NCTM teacher journals and yearbooks, and has authored/co-authored numerous books about effective mathematics teaching in K-12. She has served on the board of directors for TODOS; Equity for All and as president of the Association of Mathematics Teacher Education (AMTE).

Audience: Primary mathematics teachers of grades 1-3; Curriculum Coordinators
Date: Thursday, November 21, 2013
Location: GRREC Office, 230 Technology Way, Bowling Green, KY 42101
Time: 8:30-3:30 (CDT) Registration and Breakfast will begin at 8:00 a.m. (Lunch is on your own.)
Cost: \$100 per person
Materials: Teaching Student-Centered Mathematics Resource Book

Registration Deadline: Friday, November 15, 2013

Registration Form

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and fraction concepts in grades 1-3.***

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Please Print:

Name: _____ Position _____

Grade Level: _____ P.O. # _____
(required for registration)

Work Email Address _____ Work Phone _____

School District _____ School _____

Please rate your knowledge of the Van de Walle resource from 1 to 5 with 1= not familiar and 5 = use regularly in my classroom _____

Note: School district (or school) will be billed following the activity based upon registration. Cancellations must be made within five (5) working days of the activity to avoid being billed. Substitutions will be allowed.

To register, fax this form to GRREC at (270) 563-2208.

Registration Deadline: Friday, November 15, 2013

Sponsored by
Green River Regional Education Cooperative
230 Technology Way, Bowling Green, KY 42101
Phone: (270) 563-2113 **FAX: (270) 563-2208** Toll Free 1-866-318-6648

For more information on this workshop, contact Kim Estes

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